

Priority 1 of 8 161040

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 7/30/05 Serial # 09/837,598 Priority Application Date 12/28/98
 Your Name M. Lewis Examiner # 73172
 AU 2822 Phone 202-1735 Room JEF-5F30
 In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

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Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

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What types of references would you like? Please checkmark:

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 Teaching Refs ☐ _____

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1, 4-9 & 17-21

Problem: See paragraphs 4-10
Solution: " " " 11-21

Claims 4/29/05

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Searcher: Bose Freedman

Searcher Phone: 225-41

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 09-07-05

Date Completed: 09-07-05

Searcher Prep/Rev Time: 40

Online Time: 240

Type of Search

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Vendors

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 WWW/Internet _____
 Other _____

----- 9/7/05 09/837,877

FILE 'REGISTRY' ENTERED AT 12:41:08 ON 07 SEP 2005

L1 159887 SEA ABB=ON PLU=ON (TA OR TI OR BA OR HF OR BI OR W OR TH OR
PB)/ELS,MAC AND (OXIDE OR CHLORIDE OR BROMIDE OR IODIDE OR
ASTATIDE OR FLUORIDE)

FILE 'HCAPLUS' ENTERED AT 12:41:42 ON 07 SEP 2005

L2 26642 SEA ABB=ON PLU=ON L1(L) (INSULAT##### OR DIELEC#####)

FILE 'STNGUIDE' ENTERED AT 12:44:08 ON 07 SEP 2005

FILE 'HCAPLUS' ENTERED AT 12:45:59 ON 07 SEP 2005

L3 1631 SEA ABB=ON PLU=ON L1(L)GATE

L5 26 SEA ABB=ON PLU=ON L1(L)OVERLAP###

L6 31583 SEA ABB=ON PLU=ON L1(L)STRUCTURE

L7 78 SEA ABB=ON PLU=ON L1(L)DRAIN

L8 512 SEA ABB=ON PLU=ON GOLD STRUCTURE

L9 61 SEA ABB=ON PLU=ON GATE DRAIN OVERLAP#####
S L1(L)GOLD NOT GOLD/CN

FILE 'REGISTRY' ENTERED AT 12:49:34 ON 07 SEP 2005

L10 1 SEA ABB=ON PLU=ON GOLD/CN

FILE 'HCAPLUS' ENTERED AT 12:49:34 ON 07 SEP 2005

L11 152900 SEA ABB=ON PLU=ON L10

L12 202 SEA ABB=ON PLU=ON L1(L)GOLD NOT L11

L13 10258 SEA ABB=ON PLU=ON (2ND OR SECOND)(W) (WIRING OR PATTERN OR
CONDUCTOR OR GATE OR RUNNER OR CONDUCTIVE OR BITLINE OR
DATA LINE OR WORDLINE OR LINE)

L14 13 SEA ABB=ON PLU=ON L1 AND (L8 OR L9)

L15 6740 SEA ABB=ON PLU=ON LDD OR LIGHTLY DOPED

L16 1 SEA ABB=ON PLU=ON L3 AND L5

L17 144 SEA ABB=ON PLU=ON L3 AND L6

L18 32 SEA ABB=ON PLU=ON L3 AND L7

L19 0 SEA ABB=ON PLU=ON L3 AND L8

L20 0 SEA ABB=ON PLU=ON L3 AND L9

L21 3 SEA ABB=ON PLU=ON L5 AND L6

L22 0 SEA ABB=ON PLU=ON L5 AND L7

L23 0 SEA ABB=ON PLU=ON L5 AND L8

L24 0 SEA ABB=ON PLU=ON L5 AND L9

L25 79 SEA ABB=ON PLU=ON L13 AND (L3 OR L5 OR L6 OR L7 OR L8 OR L9)

L26 10258 SEA ABB=ON PLU=ON L13 AND (L12 OR L13 OR L14 OR L15)

L27 0 SEA ABB=ON PLU=ON L1 AND GATE OVERLAP#####

L28 50507 SEA ABB=ON PLU=ON (L3 OR L5 OR L6 OR L7 OR L8 OR L9) OR L12
OR (L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR
L22 OR L23 OR L24 OR L25 OR L26 OR L27)

L29 2623 SEA ABB=ON PLU=ON L2 AND L28

L30 1 SEA ABB=ON PLU=ON US20020014624/PN
D ALL

L31 SEL PLU=ON L30 1- IC ECLA NCL : 6 TERMS

L32 25732 SEA ABB=ON PLU=ON L31

L33 176 SEA ABB=ON PLU=ON L29 AND L32

L34 418 SEA ABB=ON PLU=ON L29 AND (CAPACITOR OR STORAGE)

L35 86 SEA ABB=ON PLU=ON L29 AND (TFTLCD OR LCDTFT OR THIN FILM(3A)T
RANSISTOR####)

L36 37 SEA ABB=ON PLU=ON L29 AND TFT

L37 88 SEA ABB=ON PLU=ON L29 AND (TFTLCD OR LCDTFT OR PIXEL##### OR
PICTURE ELEMENT OR LC OR LCD OR AMLCD OR ACTIVE MATRIX OR FPD
OR FLAT PANEL OR DISPLAY####)

L38 29 SEA ABB=ON PLU=ON (L35 OR L36) AND L37

L39 8 SEA ABB=ON PLU=ON L33 AND L34

L40 56 SEA ABB=ON PLU=ON L33 AND (L35 OR L36 OR L37)

L41 42 SEA ABB=ON PLU=ON L33 AND (L35 OR L36)

L42 32 SEA ABB=ON PLU=ON L33 AND L37

L43 18 SEA ABB=ON PLU=ON L41 AND L42

L44 5 SEA ABB=ON PLU=ON L13 AND L43
D BIB AB HITSTR TOT

L45 1693 SEA ABB=ON PLU=ON (ABOVE OR OVER) (3W)CHANNEL

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L46 17 SEA ABB=ON PLU=ON (L3 OR L5 OR L6 OR L7 OR L8 OR L9) AND L45

L47 69 SEA ABB=ON PLU=ON (L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25) AND L45

L48 17160 SEA ABB=ON PLU=ON (L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR
L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25) AND (L28
OR L29)

L49 84 SEA ABB=ON PLU=ON L45 AND (L28 OR L29)

L50 143 SEA ABB=ON PLU=ON L45 AND (L32 OR L33 OR L34 OR L35 OR L36
OR L37 OR L38 OR L39 OR L40 OR L41 OR L42 OR L43 OR L44)

L51 0 SEA ABB=ON PLU=ON (L46 OR L47 OR L48 OR L49 OR L50) AND L45
AND WIRINGS

L52 35 SEA ABB=ON PLU=ON (L46 OR L47 OR L48 OR L49 OR L50) AND L45
AND L13

L53 9 SEA ABB=ON PLU=ON L52 AND (GOLD OR OVERLAP##### OR L15)

L54 9 SEA ABB=ON PLU=ON L53 NOT L44
D BIB AB HITSTR TOT

L55 0 SEA ABB=ON PLU=ON (L3 OR L5 OR L6 OR L7) AND L54

L56 0 SEA ABB=ON PLU=ON L1 AND L54

L57 17 SEA ABB=ON PLU=ON (L3 OR L5 OR L6 OR L7 OR L8 OR L9) AND L45

L58 17 SEA ABB=ON PLU=ON L57 NOT L44

L59 17 SEA ABB=ON PLU=ON (L5 OR (L7 OR L8 OR L9) OR L12 OR L14 OR
(L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23 OR L24
OR L25) OR (L33 OR L34 OR L35 OR L36 OR L37 OR L38 OR L39 OR
L40 OR L41 OR L42 OR L43 OR L44) OR (L46 OR L47) OR (L49 OR
L50 OR L51 OR L52 OR L53 OR L54)) AND L58
D L59 BIB AB HITSTR TOT

(FILE 'HOME' ENTERED AT 12:00:06 ON 07 SEP 2005)

FILE 'CAPLUS' ENTERED AT 12:00:26 ON 07 SEP 2005

L1 2117365 S TANTALUM OR TA OR TITANIUM OR TI OR BARIUM OR BA OR HAFNIUM H
L2 57624 S INSULAT?(2N) (REGION? OR SEGMENT? OR SECTION? OR PART##### OR
L3 9270 S S1 AND S2
L4 1709 S PIXEL### AND MATRIX AND (TFT## OR THIN() FILM# OR TRANSISTOR#)
L5 7 S L3 AND L4
L6 57715 S WIRING() LINE OR L2
L7 3504580 S TANTALUM OR TA OR CHROMIUM OR CR OR TITANIUM OR TI OR TUNGSTE
L8 7014 S L6(6N) L7
L9 555 S PIXEL### (N) (MATRIX OR (TFT## OR THIN() FILM# OR TRANSISTOR#)
L10 0 S SL8 AND L9
L11 2739 S L6(2N) (FIRST OR SECOND##### OR INITIAL OR PRIMARY)
L12 4 S L9 AND L11
L13 4 S L12 NOT L5
L14 299 S L8 AND L11
L15 3 S L14 AND L4

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Set Items Description

S1 190883 S PIXEL? ?

S2 2325067 S MATRIX OR ARRAY? ? OR GROUP? ? OR BUNCH? OR BUNDLE? ?

S3 722365 S TFT? ? OR THIN()FILM? OR TRANSISTOR?

S4 20346 S S1 AND S2 AND S3

S5 35897 S AU= (YAMAZAKI S? OR YAMAZAKI, S? OR YAMAZAKI Y? OR YAMAZAKI, Y? OR KOYAMA J? OR KOYAMA, J? OR IKEDA T?)

S6 5971 S AU = (IKEDA, T? OR SHIBATA H? OR SHIBATA, H? OR KITAKADO H? OR KITAKADO, H? OR FUKUNAGA T? OR FUKUNAGA, T?)

S7 41747 S S5 OR S6

S8 456 S S7 AND S4

S9 478419 S CAPACITOR? OR CAPACITANCE

S10 193 S S8 AND S9

S11 9615 S S1(S)S2(S)S3

S12 146 S S11 AND S7 AND S9

S13 44722 S (FIRST OR INITIAL OR PRIMARY OR SECOND?)(2N)WIR?????

S14 2027797 S CHANNEL? OR CONDUIT? OR PATH??????

S15 49 S S12 AND S13 AND S14

S16 1 S S15 AND PY<=1998

S17 16 S S12 AND PY<=1998

S18 15 S S17 NOT S16

S19 15 IDPAT (sorted in duplicate/non-duplicate order)

S20 13 IDPAT (primary/non-duplicate records only)

S21 72472 S IC= (H01L-027/12 OR H01L-029/784 OR H01L-031/112 OR H01L-027/108 OR H01L-029/04 OR H01L-029/76 OR H01L-031/036)

S22 1010 S S21 AND S7

S23 52 S S11 AND S22

S24 48 S S23 NOT S20

S25 14 S S24 AND PY<=1998

S26 14 IDPAT (sorted in duplicate/non-duplicate order)

S27 14 IDPAT (primary/non-duplicate records only)

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[File 347] **JAPIO** Nov 1976-2005/Apr(Updated 050801)

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[File 350] **Derwent WPIX** 1963-2005/UD,UM &UP=200556

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[File 348] **EUROPEAN PATENTS** 1978-2005/Aug W03

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[File 349] **PCT FULLTEXT** 1979-2005/UB=20050901,UT=20050825

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Set	Items	Description
S1	287440	S PIXEL? ?
S2	8936420	S MATRIX?? OR ARRAY? ? OR GROUP? ? OR BUNCH? OR BUNDLE? ?
S3	2228192	S TFT? ? OR THIN()FILM? OR TRANSISTOR?
S4	757708	S CAPACITOR? OR CAPACITANCE
S5	7106581	S CHANNEL? OR CONDUIT? OR PATH??????
S6	31365	S (FIRST OR INITIAL OR PRIMARY OR SECOND?)(2N)WIR????
S7	280801	S INSULAT?(3N)(REGION? OR SEGMENT? OR SECTION? OR PART? ? OR PORTION? ? OR LAYER? ?)
S8	8141248	S TANTALUM OR TA OR CHROMIUM OR CR OR TITANIUM OR TI OR TUNGSTEN OR W OR MOLYBDENUM OR MO OR SILICON OR SI OR ALLOY
S9	6350100	S TANTALUM OR TA OR TITANIUM OR TI OR BARIUM OR BA OR HAFNIUM OR HF OR BISMUTH OR BI OR TUNGSTEN OR W OR THORIUM OR TH OR LEAD OR PD
S10	12294	S S1 AND S2 AND S3
S11	178	S S5 AND S6 AND S7
S12	12	S S10 AND S11
S13	12	RD (unique items)
S14	5479	S S6 AND S8
S15	21619	S S1(2N)(S2 OR S3)
S16	17	S S15 AND S14
S17	13	RD (unique items)
S18	10	S S17 NOT S13
S19	34183	S S7 AND S9
S20	95	S S19 AND S15
S21	37	S S4 AND S20
S22	36	S S21 NOT (S13 OR S18)
S23	35	RD (unique items)
S24	8	S S23 AND PY<=1998

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